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T070278	
10/02/0	

1.	Location of Reading Room: Idaho Operations Public Reading 1776 Science Center Dr. Univers Idaho Falls, ID 83403		2. Expected Release Date: May 31, 1995	
3.	Document Type:			
	[X] Letter[] Memorandum[] Report[] Publication[] Other (Specify)	From: W. P. Gammill, Branch	., Health & Safety Division Chief, Site Survey EPORT - SITE SURVEY ARCH 1961	
	· · · · · · · · · · · · · · · · · · ·	b. If report: Title:		
4.	Document Date: April 12, 1961	c. If publication:Name:Volume:Issue:		
5.	5. Summary (2-3 lines indicating the major subject(s) of the document): ANP-IET test #26 and RaLa run #54, occurring during the month and normal and routine activities are reported			
6.	Name and telephone number of person completing form:	7. Organization:	8. Date:	
	Burton R. Baldwin (208) 525-0203	Lockheed Idaho Technologies Co.	May 11, 1995	

HUMAN RADIATION EXPERIMENTS RECORDS PROVENANCE FORM

REPOSITORY NAME	INEL
COLLECTION NAME	AIRCRAFT NUCLEAR PROPULSION (ANP) PROGRAM
BOX NUMBER	INEL BOX NO. 22305 FRC AGENCY BOX NO. 30 FRC NO. 150673 ACCESSION NO. 430 78 0073
ADDITIONAL LOCATION INFORMATION	THE BOX IS STORED AT THE FEDERAL RECORDS CENTER (FRC) IN SEATTLE, WA. INEL RECORDS STORAGE RECEIPT NUMBER IS 2506 FOLDER: SITE SURVEY BRANCH MONTHLY REPORTS 1960 - 1961
FILE TITLE	ACTIVITY REPORT OF THE SITE SURVEY BRANCH - MARCH 1961
TOTAL PAGES	
BATE NUMBER RANGE	
DOCUMENT NUMBER RANGE	

HEI FORM DOCUMENT NO.: T070039

DOCUMENT NO.: T070278

DOCUMENT TITLE: ACTIVITY REPORT OF THE SITE SURVEY BRANCH - MARCH 1961

CROSS REFERENCES: ITEMS OF INTEREST:

John R. Horan, Director Health and Safety Division

APR 1 2 1961

TY REPORTS 1960-181

W. P. Germill, Chief Site Survey Branch

ACTIVITY REPORT - SITE SURVEY BRANCH - MARCH 1961

HSSS: CW

MONITORING

General: The total number of samples collected during March were as follows:

Air Semples

Water Samples

Low Vol. High Vol. Fellout Film Bedges On-Site Off-Site

The maximum gross beta activity detected at the Idaho Falls station was less than 0.2 unc/m³.

CPP: Rala run #054 was made on March 21-22, 1961 with approximately 0.7 curies of iodine-131 released to the atmosphere from March 21 to March 27, 1961.

SL-1: Gamma radiation surveys were made on March 8 and March 29 at 28 locations outside the SL-1 area. Results of these surveys indicate the decrease in dose rate can be approximated by the equation

 $A = A_0 \exp\left(\frac{-693 \text{ t}}{T_2^2}\right)$

where Ao is the activity on January 5
To is 31 days
t is number of days since January 5

ANP: IET Test #26, which started on December 23, 1960, was terminated on March 30, 1961. For the entire test a total of 2420 curies of 10 minute aged mixed fission products were released during 399 hours of operation above the minimum design power level.

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REPOSITORY _	ī	INEC	
COLLECTION	ANP		
22305,	FRC #	430 78 0073 EX BRANCH MONTH	
BCX No.	STIR SURV	EY UKANCA MOONE	

FOLDER ACTIVITY REPORT FOR MARCH 196

Maximum effluent release rate was 18.5 curies/hour of 10 minute aged fission products. Approximately 5 curies of iodine-131 and .005 curies of strontium were discharged to the atmosphere during the test.

ETR: The CE-ANP 6-3 experiment has been cancelled indefinately.

INSPECTIONS

Inspection of X-ray operations during March were as follows:

EOCR: 3 inspections SPERT-4: 2 inspections

All inspections indicated that adequate safety precautions were being taken.

DESIGN REVIEWS

Approximately 15 sets of plans for proposed facilities were reviewed by the Health Physics Section.

Waste Management Section

Research: Contract AT(10-1)1054 was completed with the exception of clean-up around wells. Five thousand, eight hundred and sixty five feet of hole was drilled involving three new wells in the vicinity of the ICPP and sixteen in the vicinity of MTR-ETR pond. Additional work on several existing wells was also performed.

Details of work reported by the USGS is quoted as follows:

Hydrological Studies: Water level recorders were operated on 7 NRTS wells during the month and 25 weekly measurements of water were made in 25 regularly observed site wide wells.

Borehole Geophysical Studies: Geophysical logging was concentrated in the MTR-ETR and ICPP areas, although logging was performed in several other wells on the site. USGS #4 at the NE corner of the site and USGS #19 at the NW corner of the site were logged. Removal of the recorder and recorder shelters on these wells was necessary and the instruments were reinstalled after logging was completed.

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An interim report on the "Hydrology of Waste Disposal" was received from USGS for review.

Waste Disposal: Waste disposal during February 1961 was as Follows:

Liquid	Air	Solid
Activity Volume	Activity	Activity Volume
Curies Gallons	Curies	Curies Cubic Ft.
221 41,167,400	29,359	1,799 16,139

HSSS GWehmann:dc 4-12-61 HSSS BLSchmalz HSSS WPGammill